

```

Db 144 --ALDNDMINETARDAAARVOVASTLSVCLFQVGLHFGVYVYTLSEPLVRCYTAA 201
Qy 212 GLQILSVLKRYIFGLTIPSTPGSGIVFTFIDICKNLPHNTNIALSIFALISGAFVLVKE 271
Db 202 AVQVFSQKLVFCLHLSHSGPLSLIYVLEVCNKLPOSKVGTVTAAVAGVVLVVKL 261
Qy 272 LNARYHHKIRPPTIEMIVVAVATAISGCKMPKKYHMOIYGEIORGFTPTVPVSOHW 331
Db 262 LNDKLOOLPMPPIGELLIGATISYGNGLKHFEDVVGNIIPAGLVPPVAPNTOLFS 321
Qy 332 DMIGTAPSLAIVSYVINLANGRTLANKHGYDVSNOEMIALGCSNFFSGFKIHVICCAL 391
Db 322 KLVSAPTIAVVGFAIAISLGKIPALRHGVRVDSNOELVALGSLNLIGIFQCFPVSCSM 381
Qy 392 SVTLAVDAGGKSOVASLCLVVMITMLVGLIYPLPKSVLGLALIAVNLKNSLKQTD 451
Db 382 SRSVLOESTGNSOVAGAISSLFILLIIVKLGLFHDLPKAVLAAILIIVNLKGMRLQSD 441
Qy 452 PYTLWRKSKLDCCINWVVSFLSFFLSLPYGVAVGVAFSVLVVVFOTOPRNGYALAQVMDT 511
Db 442 MRSUKANRADLLIMLVTTATILNLDGLVAVIFSLVLLVYVVTOMPHYSVLQVDPDT 501
Qy 512 DIYVNPKNYRAODIOGKIITYCSPLYFANSEIF-----RQKVIK 553
Db 502 DIYRDAVETSEAKVRGVFRSSATVVFANAEFYSDALKQRCGVVDVDFLISQKKLLKK 561
Qy 554 --TVSLOELQD----FENAPPTDP-----NNNOTPANGTSVSYTFSPDS 593
Db 562 OEOLKLOLQKEKLRKQASPKGASVSNVNTSLEDHRSNVEDCKMKQVS-----SGDK 617
Qy 594 SSPAOSEPPASABARCEPSDMLASVPPFTFHTLIDNSGVSVFDLMGKIKALAKLSSTYG 653
Db 618 MEDATANGQEDSKAP-DGSTLKALGLPQDPDFHSLILDGLGALSFVDVCLSKNIFHDFR 676
Qy 654 KIGVKVFLVNIHAQVYNDISHGCVFEDGSLECKHVPFPIHDAVLFAQANARDV 706
Db 677 EIEVEVYMAACHSPVVSQLEAGHFF-DASITKHLFASVHDVAVTALQHPRPV 728

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RESULT 2

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Q9BXS9 ID Q9BXS9 PRELIMINARY: PRT: 759 AA.
AC Q9BXS9 ID Q9BXS9 PRELIMINARY: PRT: 759 AA.
DT 01-JUN-2001 (Tremblrel. 17, Created)
DT 01-JUN-2001 (Tremblrel. 17, Last sequence update)
DT 01-JUN-2001 (Tremblrel. 17, Last annotation update)
DE SOLUTE CARRIER FAMILY 26 MEMBER 6.
GN SLC26A6.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=21145584; PubMed=11247665;
RA Waldegger S., Moschen I., Ramirez A., Smith R.J., Ayadi H., Lang F.,
RA Kubisch C.;
RT "Cloning and Characterization of SLC26A6, a Novel Member of the Solute
RT Carrier 26 Gene Family.";
RL Genomics 72:43-50(2001).
DR EMBL: AF288410; AAK39157.1;
SQ SEQUENCE 759 AA; 82966 MW; 63CB08756C9675C6 CRC64;

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Query Match 32.5%; Score 1250; DB 4; Length 759;
 Best Local Similarity 36.6%; Pred. No. 1e-70;
 Matches 261; Conservative 162; Mismatches 238; Indels 52; Gaps 8;

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Qy 32 PVGEKLRNAPRCSAKIAVFGLLPVLSNLPKYIKDYIIPOLLGSLSGGSQVPOGMA 91
Db 51 PRTHQRTWQCSRARAVALLQLHPLVLPVPRYPRVDMGLDGLSLVIAIMQLPOGLA 110
Qy 92 FALLANLPAVNGLYSFFPLLTFFLFGVHOMVGTFAVISILVGNICLQLAPEKQVF 151

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Db 111 YALLAGLPVFGLYSSFPYIYFLFCTSRHISVGTFAVMSVAVGVSYSLAPO----- 164
Qy 152 NNATHESVDTAAMEAEERLHVSAATLACLTALIQNGLGFGHFGFVAYIYLSSEFIRPTAA 211
Db 165 --ALDNDMINETARDAAARVOVASTLSVCLFQVGLHFGVYVYTLSEPLVRCYTAA 222
Qy 212 GLQILSVLKRYIFGLTIPSTPGSGIVFTFIDICKNLPHNTNIALSIFALISGAFVLVKE 271
Db 223 AVQVFSQKLVFCLHLSHSGPLSLIYVLEVCNKLPOSKVGTVTAAVAGVVLVVKL 282
Qy 272 LNARYHHKIRPPTIEMIVVAVATAISGCKMPKKYHMOIYGEIORGFTPTVPVSOHW 331
Db 283 LNDKLOOLPMPPIGELLIGATISYGNGLKHFEDVVGNIIPAGLVPPVAPNTOLFS 342
Qy 332 DMIGTAPSLAIVSYVINLANGRTLANKHGYDVSNOEMIALGCSNFFSGFKIHVICCAL 391
Db 343 KLVSAPTIAVVGFAIAISLGKIPALRHGVRVDSNOELVALGSLNLIGIFQCFPVSCSM 402
Qy 392 SVTLAVDAGGKSOVASLCLVVMITMLVGLIYPLPKSVLGLALIAVNLKNSLKQTD 451
Db 403 SRSVLOESTGNSOVAGAISSLFILLIIVKLGLFHDLPKAVLAAILIIVNLKGMRLQSD 462
Qy 452 PYTLWRKSKLDCCINWVVSFLSFFLSLPYGVAVGVAFSVLVVVFOTOPRNGYALAQVMDT 511
Db 463 MRSUKANRADLLIMLVTTATILNLDGLVAVIFSLVLLVYVVTOMPHYSVLQVDPDT 522
Qy 512 DIYVNPKNYRAODIOGKIITYCSPLYFANSEIF-----RQKVIK 553
Db 523 DIYRDAVETSEAKVRGVFRSSATVVFANAEFYSDALKQRCGVVDVDFLISQKKLLKK 582
Qy 554 --TVSLOELQD----FENAPPTDP-----NNNOTPANGTSVSYTFSPDS 593
Db 593 OEOLKLOLQKEKLRKQASPKGASVSNVNTSLEDHRSNVEDCKMKQVS-----SGDK 638
Qy 594 SSPAOSEPPASABARCEPSDMLASVPPFTFHTLIDNSGVSVFDLMGKIKALAKLSSTYG 653
Db 639 MEDATANGQEDSKAP-DGSTLKALGLPQDPDFHSLILDGLGALSFVDVCLSKNIFHDFR 697
Qy 654 KIGVKVFLVNIHAQVYNDISHGCVFEDGSLECKHVPFPIHDAVLFAQANARDV 706
Db 698 EIEVEVYMAACHSPVVSQLEAGHFF-DASITKHLFASVHDVAVTALQHPRPV 749

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RESULT 3

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Q9EPH0 ID Q9EPH0 PRELIMINARY: PRT: 744 AA.
AC Q9EPH0 ID Q9EPH0 PRELIMINARY: PRT: 744 AA.
DT 01-MAR-2001 (Tremblrel. 16, Created)
DT 01-MAR-2001 (Tremblrel. 16, Last sequence update)
DT 01-JUN-2001 (Tremblrel. 17, Last annotation update)
DE PRESTIN.
OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
OX NCBI_TaxID=10116;
RN [1]
RP SEQUENCE FROM N.A.
RA Ludwig J., Oliver D., Frank G., Kloecker N., Gummer A.W., Fakler B.;
RT "The reciprocal electromechanical properties of rat prestin: the motor
RT molecule of rat outer hair cells.";
RL Submitted (JAN-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL: AJ303372; CAC21555.1;
DR InterPro: IPR002645; STAS.
DR InterPro: IPR001902; Sulfate_transp.
DR Pfam: PF01740; STAS; 1.
DR Pfam: PF00916; Sulfate_transp; 1.
SQ SEQUENCE 744 AA; 81278 MW; E49E842CF7A3CD58 CRC64;

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Query Match 32.5%; Score 1255.5; DB 11; Length 744;
 Best Local Similarity 35.4%; Pred. No. 1.4e-70;
 Matches 265; Conservative 163; Mismatches 267; Indels 53; Gaps 11;

OY 542 NSEIFRQKVIATYSLQELQODFENAPPTDPNNQTPANGTSVSYITFPDSSSPQASEP 601
 Db 358 nkecfksalyktvnpillikvawkaarkkikekvvtlglgq-----demsavqlshd 409
 OY 602 PASAEAPCEPSOMLASVFPFTEHTLIIDNSGVSVFDLMGKIKALKLSYTGKIGVKVEL 661
 Db 410 p-----telhtvidcsaigfidtagihltkevrdeyalgqvll 450
 OY 662 VNIHAQVYNDISHGVFDEGSLECKH-----VFPSTHDAVLFAQAN 702
 Db 451 eqcnptvrdsltngey-----ckkeeenllfysvyeamafevs 489
 RESULT 8
 AAM42394
 ID AAM42394 standard; Protein: 143 AA.
 AC AAM42394;
 XX
 DT 22-OCT-2001 (first entry)
 XX Human polypeptide SEQ ID NO 127.
 DE Human; neurotropic; neuroprotective; cytostatic; dermatological; virucide;
 KW immunosuppressive; antiinflammatory; anti-HIV; antibacterial; vulnerary;
 KW antiparkinsonian; antisickling; antianemic; antiarthritic; cancer;
 KW antirheumatic; hepatotropic; cerebroprotective; antiinflammatory;
 KW antiallergic; antidiabetic; antiulcer; anticonvulsant; antifungal;
 KW antiparasitic; cardiant; immune disorder; cardiovascular disorder;
 KW neurological disease; infection; nephrotropic; gene therapy; vaccine.
 XX
 OS Homo sapiens.
 XX
 PN WO200155449-A1.
 XX
 PD 02-AUG-2001.
 XX
 PF 17-JAN-2001; 2001WO-US01346.
 XX
 PR 31-JAN-2000; 2000US-0179065.
 PR 04-FEB-2000; 2000US-0180628.
 PR 19-MAY-2000; 2000US-0205515.
 PR 07-JUL-2000; 2000US-0216880.
 PR 14-JUL-2000; 2000US-0218290.
 PR 14-AUG-2000; 2000US-0225447.
 PR 01-SEP-2000; 2000US-0229343.
 PR 06-SEP-2000; 2000US-0230437.
 PR 08-SEP-2000; 2000US-0231243.
 PR 25-SEP-2000; 2000US-0234997.
 PR 29-SEP-2000; 2000US-0236367.
 PR 13-OCT-2000; 2000US-0239937.
 PR 08-NOV-2000; 2000US-0246476.
 PR 08-NOV-2000; 2000US-0246477.
 PR 08-NOV-2000; 2000US-0246525.
 PR 08-NOV-2000; 2000US-0246526.
 PR 08-NOV-2000; 2000US-0246528.
 PR 17-NOV-2000; 2000US-0249210.
 PR 17-NOV-2000; 2000US-0249211.
 PR 17-NOV-2000; 2000US-0249214.
 PR 17-NOV-2000; 2000US-0249215.
 PR 01-DEC-2000; 2000US-0250160.
 PR 01-DEC-2000; 2000US-0250161.
 PR 05-DEC-2000; 2000US-0251030.
 PR 05-DEC-2000; 2000US-0251988.
 PR 05-DEC-2000; 2000US-0256719.
 PR 06-DEC-2000; 2000US-0251479.
 PR 08-DEC-2000; 2000US-0251989.
 PR 08-DEC-2000; 2000US-0251990.
 PR 11-DEC-2000; 2000US-0254097.
 XX
 XX (HUMA-) HUMAN GENOME SCI INC.
 XX Rosen CA, Barash SC, Ruben SM;
 PI

XX WPI: 2001-476225/51.
 DR N-PSDB; AAI62799.
 XX
 PT Novel plasma membrane associated proteins useful for diagnosing,
 PT treating, preventing and/or prognosing disorders related to the
 PT proteins, including cancer, immune response and neuronal disorders
 XX
 PS Claim 11: SEQ ID NO 127; 532pp + Sequence Listing; English.
 XX
 CC The invention relates to novel genes (AAI62752-AAI62961) and proteins
 CC (AAM42347-AAM42415) useful for preventing, treating or ameliorating
 CC medical conditions e.g. by protein or gene therapy. The genes are
 CC isolated from a range of human tissues disclosed in the specification.
 CC The nucleic acids, proteins, antibodies and (ant)agonists are useful
 CC in the diagnosis, treatment and prevention of: (a) cancer, e.g. breast
 CC and ovarian cancer and other cancers of the adrenal gland, bone, bone
 CC marrow, breast, gastrointestinal tract, liver, lung, or urogenital;
 CC (b) immune disorders e.g. Addison's disease, allergies, autoimmune
 CC haemolytic anaemia, autoimmune thyroiditis, diabetes mellitus, Crohn's
 CC disease, multiple sclerosis, rheumatoid arthritis and ulcerative
 CC colitis; (c) cardiovascular disorders such as myocardial ischaemias;
 CC (d) wound healing; (e) neurological diseases e.g. cerebral anoxia and
 CC epilepsy; and (f) infectious diseases such as viral, bacterial, fungal
 CC and parasitic infections.
 CC Note: The sequence data for this patent did not form part of the
 CC printed specification, but was obtained in electronic format directly
 CC from WIPO at ftp.wipo.int/pub/published_pct_sequences.
 XX
 SQ Sequence 143 AA;
 Query Match 15.58; Score 601.5; DB 22; Length 143;
 Best Local Similarity 91.08; Pred. No. 8.9e-53;
 Matches 122; Conservative 3; Mismatches 8; Indels 1; Gaps 1;
 OY 107 SFPPLTYFFLGGVHGVHVPCTPAVISILVGNICLQLAPESKQVFNATNESYVDTAAME 166
 Db 9 sffpltyffxggvhgmvpctpavfavisilvgnicqlqlapeskqvfnnatnesyvdtaame 68
 OY 167 AERLHVSATLACLTATIQMGLGFNQFVAYILSESFIRGPTAAGLQILISVLKYYIFGL 226
 Db 69 aerihsaatlactlxliqmglgfmqgfvayilsefgrfntaagllilsvklyifga 128
 OY 227 -TTPSYTGCGSIVF 239
 Db 129 gqepthawprsfaf 142
 RESULT 9
 AAY44945
 ID AAY44945 standard; Protein: 593 AA.
 XX
 AC AAY44945;
 XX
 DT 23-MAY-2000 (first entry)
 XX
 DE Wheat sulphate permease-2.
 XX
 KW Sulphate Permease; sulphate assimilation protein; wheat; probe;
 KW mapping; marker; plant breeding; chimeric gene; transgenic plant;
 KW antibody; screen.
 XX
 OS Triticum aestivum.
 XX
 PN WO200004154-A2.
 XX
 PD 27-JAN-2000.
 XX
 PF 13-JUL-1999; 99WO-US15810.
 XX
 PR 14-JUL-1998; 98US-0092833.
 XX